QC ABSTRACT

NAME OF WORK: Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

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7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	2 set /1-5 cum	11.86	4	4
10	RMC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	232.73	8	8
11	GSB	SIEVE ANALYSIS	One Test		1	1
12	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-12-10** **Date: 19-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-03-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-12-10** **Date: 14-04-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-03-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೨೬

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-12-10** **Date: 19-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-12-10** **Date: 19-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-12-10** **Date: 18-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-12-10** **Date: 18-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-01-12-10** **Date: 18-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-03-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-01-12-10** **Date: 18-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.4	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-01-12-10** **Date: 18-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type	:	Kamadhenu
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	17-03-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Kamadhenu	Fe500	8	0.392	508	622	21.0%	Satisfactory	Satisfactory
2	Kamadhenu	Fe500	10	0.615	520	648	20.0%	Satisfactory	Satisfactory
3	Kamadhenu	Fe500	12	0.887	542	678	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 20-03-21

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type /Size	:	Precast Cover Slab 100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	16/03/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.01	100.02	1.145	4418	99.1	22.4	20.9	26.1
2	Cover Slab-2	75.03	100.01	1.210	4421	100.8	22.8	21.2	26.5
3	Cover Slab-3	75.01	100.03	1.198	4418	98.7	22.3	20.8	26.0

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-01-12-10** **Date: 20-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type /Size	:	Precast Cover Slab 250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	16/03/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.02	250.08	3.980	31416	679.8	21.6	20.1	25.2
2	Cover Slab-2	200.05	250.04	3.988	31426	682.3	21.7	20.2	25.2
3	Cover Slab-3	200.03	250.05	3.899	31419	681.2	21.7	20.2	25.2

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Certificate No.: TC-5548

Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/03/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/03/2021	27/03/2021	150.01 X 151.84 X 149.53	22778	8.194	313.9	13.8	13.2
2	PCC	M15	20/03/2021	27/03/2021	149.44 X 150.88 X 151.69	22547	8.577	292.0	12.9	
3	PCC	M15	20/03/2021	27/03/2021	151.62 X 150.98 X 151.20	22892	8.822	297.1	13.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-12-10** **Date: 17/04/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/197/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/03/2021	17/04/2021	149.43 X 149.24 X 149.03	22300	8.136	404.5	18.1	18.0
2	PCC	M15	20/03/2021	17/04/2021	149.13 X 150.12 X 150.19	22386	8.497	390.9	17.5	
3	PCC	M15	20/03/2021	17/04/2021	150.13 X 149.99 X 150.05	22517	9.031	414.3	18.4	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/03/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 29/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	PCC	M15	22/03/2021	29/03/2021	149.77 X 149.80 X 150.66	22435	8.385	275.5	12.3	12.3
2	PCC	M15	22/03/2021	29/03/2021	150.42 X 149.94 X 149.30	22554	8.611	282.1	12.5	
3	PCC	M15	22/03/2021	29/03/2021	151.85 X 149.38 X 149.69	22683	9.009	272.5	12.0	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-01-12-10 **Date: 19/04/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	22/03/2021	19/04/2021	151.72 X 151.80 X 150.81	23031	8.782	419.2	18.2	18.4
2	PCC	M15	22/03/2021	19/04/2021	150.90 X 151.76 X 150.60	22900	8.995	421.2	18.4	
3	PCC	M15	22/03/2021	19/04/2021	150.25 X 150.22 X 150.37	22571	9.037	420.0	18.6	

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 20-03-21

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H.No.32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-03-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	202	202	16526	31.30	1893.9	1913.8	Not less than 1800Kg/m^3
2	404	198	202	16158	30.25	1872.0		
3	400	199	200	15920	31.45	1975.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	32.91	31.30	4.89	4.25	Shall not be more than 10% by mass
2	32.57	31.18	4.28		
3	32.44	31.28	3.59		

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Lab ID : **CP-2022-01-12-10**

Date: 20-03-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	201	201	
2	404	202	202	
3	402	201	203	
4	402	203	200	
5	402	201	199	
6	402	199	203	
7	402	202	202	
8	401	203	199	
9	402	201	202	
10	400	200	200	
11	403	198	199	
12	400	203	199	
13	402	202	201	
14	402	201	203	
15	401	203	203	
16	400	198	200	
17	402	201	200	
18	401	202	203	
19	400	202	200	
20	402	201	203	
Average of 20	**402**	**201**	**201**	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Lab ID : CP-2022-01-12-10

Date: 20-03-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80400	316.5	3.9	4.2
2	404	202	81548	359.5	4.4	
3	402	201	80735	318.1	3.9	
4	402	203	81635	310.1	3.8	
5	402	201	80780	365.7	4.5	
6	402	199	79925	327.8	4.1	
7	402	202	81267	350.8	4.3	
8	401	203	81338	361.3	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-21
Customer ID	:	Drain Bottom Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Concrete	M20	25/03/2021	01/04/2021	150.45 X 149.16 X 151.21	22441	8.713	405.3	18.1	18.5
2	Drain Bottom Concrete	M20	25/03/2021	01/04/2021	150.47 X 149.10 X 150.91	22435	8.848	418.2	18.6	
3	Drain Bottom Concrete	M20	25/03/2021	01/04/2021	149.59 X 151.66 X 150.67	22687	8.533	426.8	18.8	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-21
Customer ID	:	Drain Bottom Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Concrete	M20	25/03/2021	22/04/2021	150.32 X 151.37 X 150.10	22753	8.212	541.9	23.8	23.3
2	Drain Bottom Concrete	M20	25/03/2021	22/04/2021	149.20 X 150.63 X 151.55	22473	8.202	497.1	22.1	
3	Drain Bottom Concrete	M20	25/03/2021	22/04/2021	150.69 X 149.76 X 149.11	22567	8.616	541.2	24.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/04/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO 197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-21
Customer ID	:	Drain Bottom Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Concrete	M20	26/03/2021	02/04/2021	151.81 X 149.37 X 150.81	22675	8.531	414.5	18.3	18.7
2	Drain Bottom Concrete	M20	26/03/2021	02/04/2021	150.57 X 150.52 X 149.92	22664	8.718	429.6	19.0	
3	Drain Bottom Concrete	M20	26/03/2021	02/04/2021	149.80 X 149.15 X 150.67	22344	8.628	421.3	18.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-21
Customer ID	:	Drain Bottom Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Concrete	M20	26/03/2021	23/04/2021	150.48 X 149.88 X 149.17	22555	8.942	525.2	23.3	23.2
2	Drain Bottom Concrete	M20	26/03/2021	23/04/2021	151.10 X 151.72 X 150.88	22925	8.802	518.5	22.6	
3	Drain Bottom Concrete	M20	26/03/2021	23/04/2021	151.52 X 150.58 X 150.32	22816	8.604	538.1	23.6	

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/03/2021	04/04/2021	149.23 X 150.85 X 149.58	22511	8.428	423.9	18.8	18.5
2	Drain Side Wall	M20	28/03/2021	04/04/2021	151.71 X 150.02 X 149.53	22761	8.125	415.6	18.3	
3	Drain Side Wall	M20	28/03/2021	04/04/2021	150.91 X 151.08 X 149.75	22801	8.102	418.9	18.4	

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-12-10 **Date: 26/04/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/197/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-21

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/03/2021	25/04/2021	149.75 X 150.38 X 149.88	22520	8.917	530.8	23.6	23.0
2	Drain Side Wall	M20	28/03/2021	25/04/2021	150.14 X 150.18 X 149.32	22549	8.207	507.2	22.5	
3	Drain Side Wall	M20	28/03/2021	25/04/2021	150.27 X 151.20 X 151.35	22721	8.990	522.8	23.0	

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Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/04/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	04/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/03/2021	04/04/2021	150.01 X 151.55 X 150.07	22734	8.944	428.8	18.9	18.5
2	Drain Side Wall	M20	28/03/2021	04/04/2021	149.81 X 151.80 X 149.67	22742	8.624	414.4	18.2	
3	Drain Side Wall	M20	28/03/2021	04/04/2021	151.41 X 151.12 X 149.77	22881	8.589	420.3	18.4	

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Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2021

Date: 26/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/03/2021	25/04/2021	149.38 X 151.94 X 150.14	22698	8.935	532.7	23.5	23.2
2	Drain Side Wall	M20	28/03/2021	25/04/2021	151.38 X 149.48 X 150.52	22627	8.583	513.9	22.7	
3	Drain Side Wall	M20	28/03/2021	25/04/2021	151.68 X 149.78 X 149.18	22718	8.349	534.2	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/03/2021	04/04/2021	150.59 X 151.29 X 149.18	22782	8.105	426.6	18.7	18.7
2	Drain Side Wall	M20	28/03/2021	04/04/2021	150.28 X 150.03 X 150.17	22546	8.475	421.9	18.7	
3	Drain Side Wall	M20	28/03/2021	04/04/2021	149.12 X 151.67 X 149.65	22618	9.013	420.1	18.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/03/2021	25/04/2021	150.52 X 151.90 X 149.22	22864	8.519	544.5	23.8	23.3
2	Drain Side Wall	M20	28/03/2021	25/04/2021	149.11 X 151.85 X 151.01	22642	8.583	516.2	22.8	
3	Drain Side Wall	M20	28/03/2021	25/04/2021	149.88 X 150.65 X 150.98	22579	9.079	525.7	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/04/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri. K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/03/2021	05/04/2021	150.13 X 151.47 X 149.58	22739	8.677	409.7	18.0	18.3
2	Drain Side Wall	M20	29/03/2021	05/04/2021	149.56 X 150.99 X 150.19	22582	8.742	424.4	18.8	
3	Drain Side Wall	M20	29/03/2021	05/04/2021	149.64 X 149.78 X 151.95	22413	8.620	405.1	18.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-12-10 **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division

Agency : Sri K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/197/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-21

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/03/2021	05/04/2021	151.16 X 151.01 X 151.54	22827	8.253	420.9	18.4	18.6
2	Drain Side Wall	M20	29/03/2021	05/04/2021	149.89 X 150.49 X 149.36	22558	8.123	423.1	18.8	
3	Drain Side Wall	M20	29/03/2021	05/04/2021	150.47 X 149.66 X 150.84	22520	8.887	419.5	18.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/03/2021	26/04/2021	151.13 X 150.31 X 149.25	22715	8.917	529.9	23.3	22.9
2	Drain Side Wall	M20	29/03/2021	26/04/2021	151.61 X 149.44 X 151.11	22657	8.310	502.0	22.2	
3	Drain Side Wall	M20	29/03/2021	26/04/2021	150.12 X 151.32 X 150.12	22717	8.282	525.2	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/04/2021

Lab ID	:	**CP-2022-01-12-10**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division
Agency	:	Sri K S Chowda Reddy H No 32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/03/2021	05/04/2021	149.08 X 151.20 X 151.03	22541	8.368	413.9	18.4	18.4
2	Drain Side Wall	M20	29/03/2021	05/04/2021	149.54 X 151.40 X 151.56	22640	8.581	423.7	18.7	
3	Drain Side Wall	M20	29/03/2021	05/04/2021	151.13 X 151.22 X 149.32	22855	8.461	413.0	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2021

Lab ID	:	CP-2022-01-12-10
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/03/2021	26/04/2021	149.85 X 149.48 X 150.65	22400	8.985	525.8	23.5	23.1
2	Drain Side Wall	M20	29/03/2021	26/04/2021	150.70 X 150.97 X 149.83	22751	8.276	513.7	22.6	
3	Drain Side Wall	M20	29/03/2021	26/04/2021	151.92 X 149.95 X 149.68	22780	8.927	526.3	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2022-01-12-10 **Date: 17-06-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 15-06-21

Type of Mix : GSB (Granular Sub Base)

Date of test : 15-06-21

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100.0	100
53	898	898	9.0	91.0	80-100
26.5	1688	2586	25.9	74.1	55-90
9.5	1052	3638	36.4	63.6	35-65
4.75	2188	5826	58.3	41.7	25-50
2.36	2311	8137	81.4	18.6	10-20
0.85	1012	9149	91.5	8.5	2-10
0.425	385	9534	95.3	4.7	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Date: 23-06-21

Lab ID	:	**CP-RW-2022-01-12-10**
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/197/2020-21
Date of Receipt	:	21-06-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	21-06-21
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	3.0	97.0	95-100
22.4	2078	2376	23.8	76.2	60-80
11.2	2314	4690	46.9	53.1	40-60
4.75	2098	6788	67.9	32.1	25-40
2.36	1487	8275	82.8	17.3	15-30
0.6	747	9022	90.2	9.8	8-22
0.075	578	9600	96.0	4.0	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-01-12-10**	**Date: 23-06-21**
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division	
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64	
Customer Reference	:	BBMP/EE/BTP/WO/197/2020-21	
Date of Receipt	:	21-06-21	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	21-06-21	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	303.0	303.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	71.0	76.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.7	226.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	23.4	25.1
6	Aggregate impact value (Mean of two tests)	Pecentage	24.3	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2022-01-12-10 **Date: 23-06-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 21-06-21

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 21-06-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	23.5%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-01-12-10** **Date: 23-06-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byataravanapura Sub

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 21-06-21

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 21-06-21

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2316	2618	23.8	76.2	60-80
11.2	2364	4982	45.3	54.7	40-60
4.75	2326	7308	66.4	33.6	25-40
2.36	1629	8937	81.2	18.8	15-30
0.6	537	9474	86.1	13.9	8-22
0.075	1138	10612	96.5	3.5	0-5

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-01-12-10**	**Date: 23-06-21**
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.	
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64	
Customer Reference	:	BBMP/EE/BTP/WO/197/2020-21	
Date of Receipt	:	21-06-21	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	21-06-21	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.7%	
Combined Flakiness and Elongation Index for WMM	20.2%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-01-06-07** **Date: 08-12-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 06-12-21

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 06-12-21

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	102	102	2.0	98.0	90-100
9.5	1105	1207	24.1	75.9	70-88
4.75	912	2119	42.4	57.6	53-71
2.36	111	2230	44.6	55.4	42-58
1.18	452	2682	53.6	46.4	34-48
0.6	459	3141	62.8	37.2	26-38
0.3	611	3752	75.0	25.0	18-28
0.15	512	4264	85.3	14.7	12-20
0.075	488	4752	95.0	5.0	4-10
PAN	248	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2022-01-06-07 **Date: 10-12-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 06-12-21

Type of Mix : BC(Bitumenous Concrete)

Date of test : 06-12-21

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.5	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Date: 10-12-21

Lab ID	:	**CP-RW-2022-01-06-07**
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/197/2020-21
Date of Receipt	:	06-12-21
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	06-12-21

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.9	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.2		
Strength	Aggregate Impact Value	19.9	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.78	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2022-01-06-07** **Date: 10-12-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 06-12-21

Type of Mix : BC (Bituminous Concrete)

Date of test : 06-12-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	13.31	14.69	10KN(min)
2	Marshal flow at 60°C, mm	4.33	3.36	2-4
3	Percent air Voids	5.95	5.35	3-5
4	Percent Voids in mineral Aggregate(VMA %)	15.98	15.43	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.48	69.70	65-75
6	Density, g/cc	2.25	2.26	_

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-01-06-07** **Date: 14-12-21**

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 13-12-21

Type of Mix : Tack coat

Date of test : 13-12-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.790	0.744
4	Final weight of plate after application of tack Coat (c)	Kg	0.813	0.767
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 14-12-21

Lab ID : CP-RW-2022-01-06-07

Project Name : Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division

Agency : Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/197/2020-21

Date of Receipt : 13-12-21

Type of Mix : BC (Bituminous Concrete)

Date of test : 13-12-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	5.80
4	Average percentage	%	5.9	

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Lab ID : CP-RW-2022-01-06-07

Date: 14-12-21

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	2.6	97.4	90-100
9.5	99	111	23.6	76.4	70-88
4.75	66	177	37.7	62.3	53-71
2.36	71	248	52.8	47.2	42-58
1.18	41	289	61.5	38.5	34-48
0.6	21	310	66.0	34.0	26-38
0.3	60	370	78.8	21.2	18-28
0.15	24	394	83.9	16.1	12-20
0.075	38	432	92.0	8.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	11	11	2.3	97.7	90-100
9.5	101	112	23.8	76.2	70-88
4.75	65	177	37.6	62.4	53-71
2.36	69	246	52.2	47.8	42-58
1.18	43	289	61.4	38.6	34-48
0.6	22	311	66.0	34.0	26-38
0.3	61	372	79.0	21.0	18-28
0.15	25	397	84.3	15.7	12-20
0.075	32	429	91.1	8.9	4-10

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-01-06-07**	**Date: 03-12-21**
Project Name	:	Improvements to Roads and Asphalting at Maruthi Layout Surrounding Area Dasarahalli Village in Ward No 06 Thanisandra Byatarayanapura Sub Division.	
Agency	:	Sri. K S Chowda Reddy H.No:32,2nd Main, 3rd Cross, Maruthinagara, Yelahanka, Bangalore-64	
Customer's Reference	:	BBMP/EE/BTP/WO/197/2020-21	
Date of Receipt	:	01-12-21	
Sample Type	:	Bitumen	
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)	
Date of test	:	01-12-21	

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**62**	60 to 70
2	Softening Point, °C	**52.2**	Min. 40°C
3	Ductility, cm	**95**	Min. 75cm
4	Flash point, °C	**242**	Min. 220°C
	Fire point, °C	**270**	

* The results obtained are satisfactory as per standard requirements.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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